



Unique Identification (UID) of Items

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DoD Vision for Item Marking



To implement a policy establishing [a strategic imperative](#) for uniquely identifying tangible items relying to the maximum extent practical on international standards and commercial item markings and while not imposing unique government data requirements.

Uniquely identified (UID) tangible items will facilitate item tracking in DoD business systems and provide reliable and accurate data for management, financial, accountability and asset management purposes.



UID Timeline



- ◆ UID policy issued (effective 1 Jan 04) 29 Jul 03
- ◆ DFARS Rule published in Federal Register 10 Oct 03
- ◆ UID policy revision #1 26 Nov 03
- ◆ UID policy revision #2 22 Dec 03
- ◆ Comments closed on revision #2 1 Mar 04
- ◆ Possible “migration plan” policy issued mid-May 04
- ◆ Final DFARS Rule Jun 04
- ◆ UID policy on marking in-service parts Sep 04
- ◆ UID requirements applicable to GFP 1 Jan 05

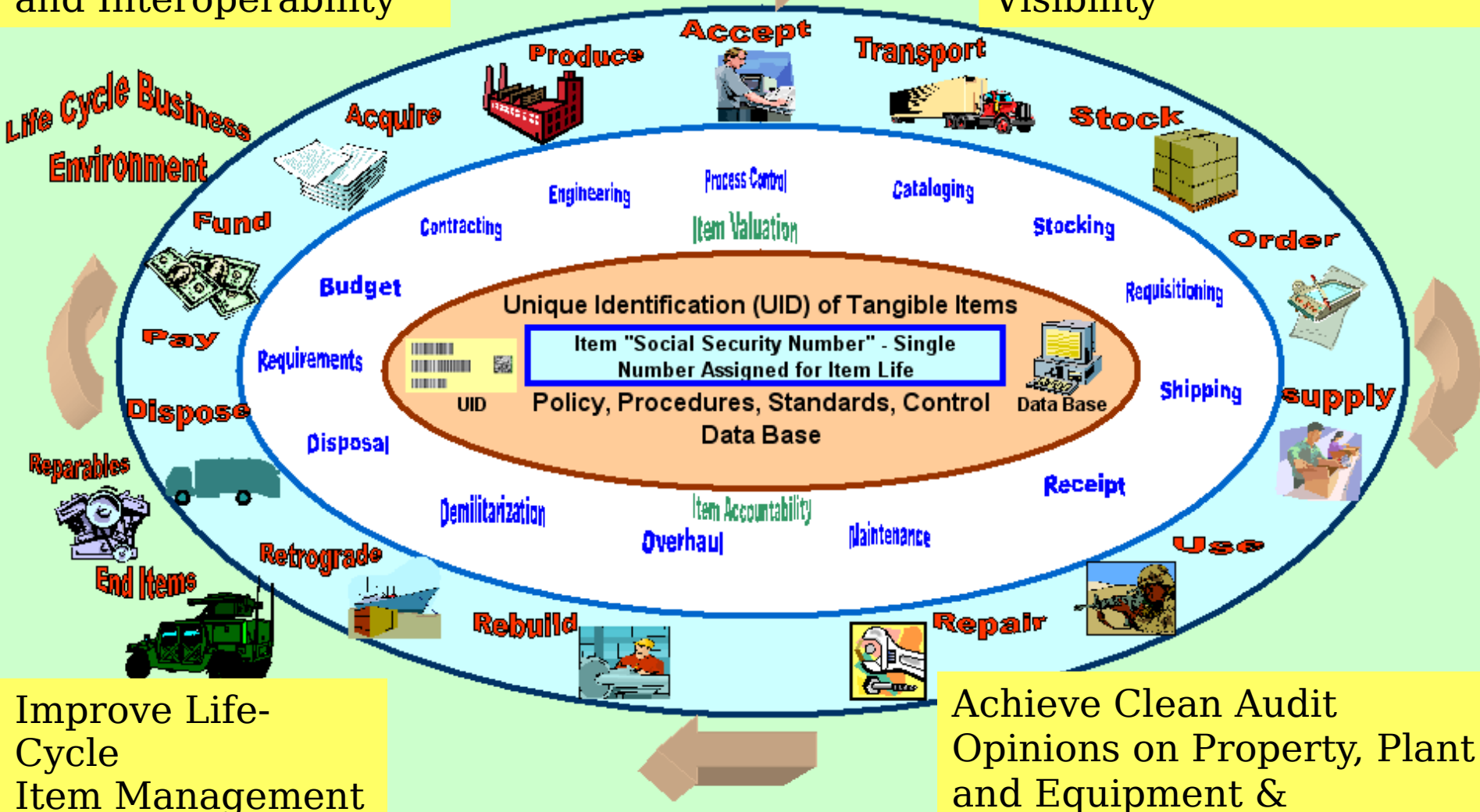
Meanwhile, UID policy continues to evolve...



UID Role - Business Enterprise Architecture

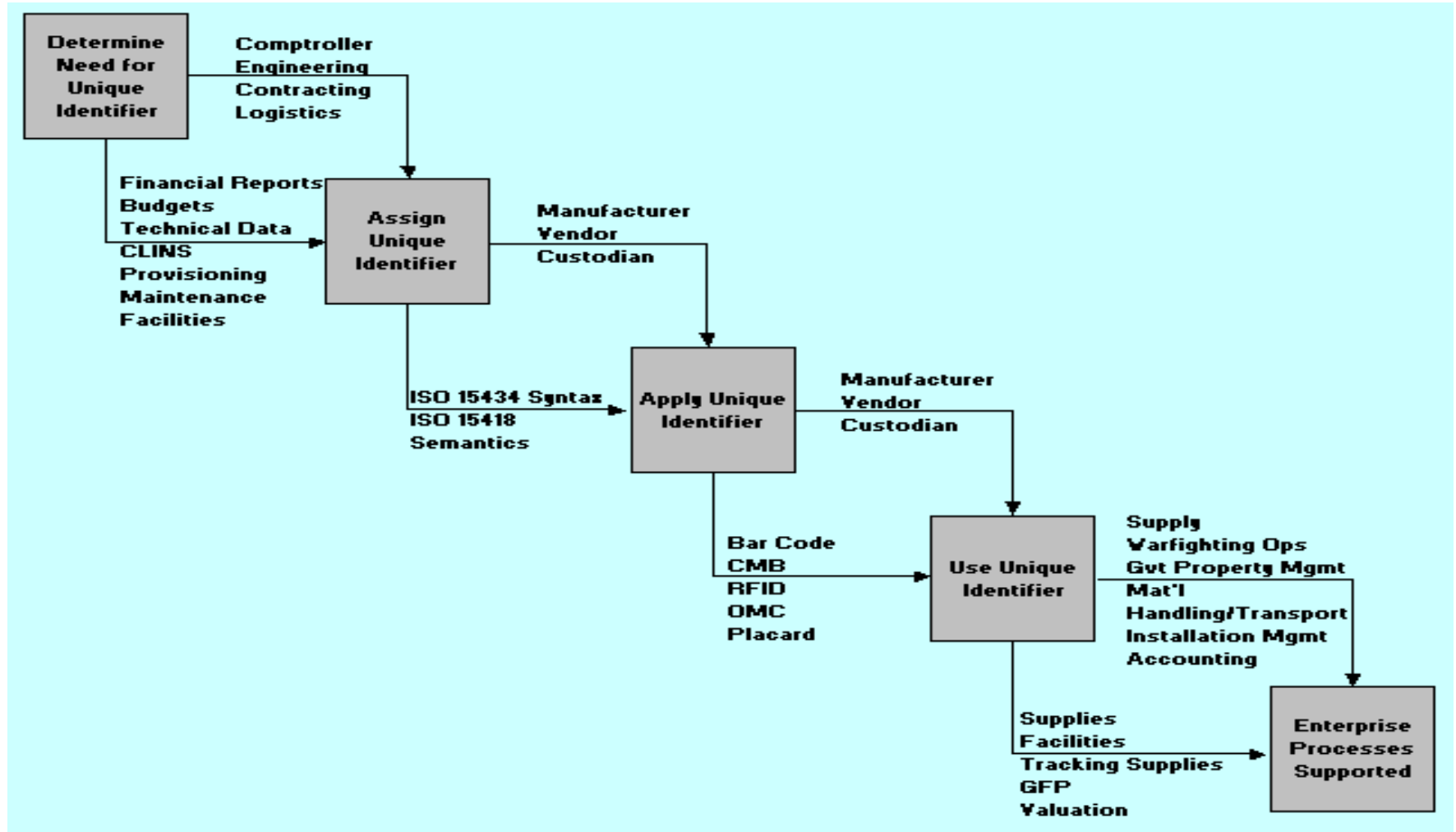
Improve Data Quality and Interoperability

Enhance Total Asset Visibility



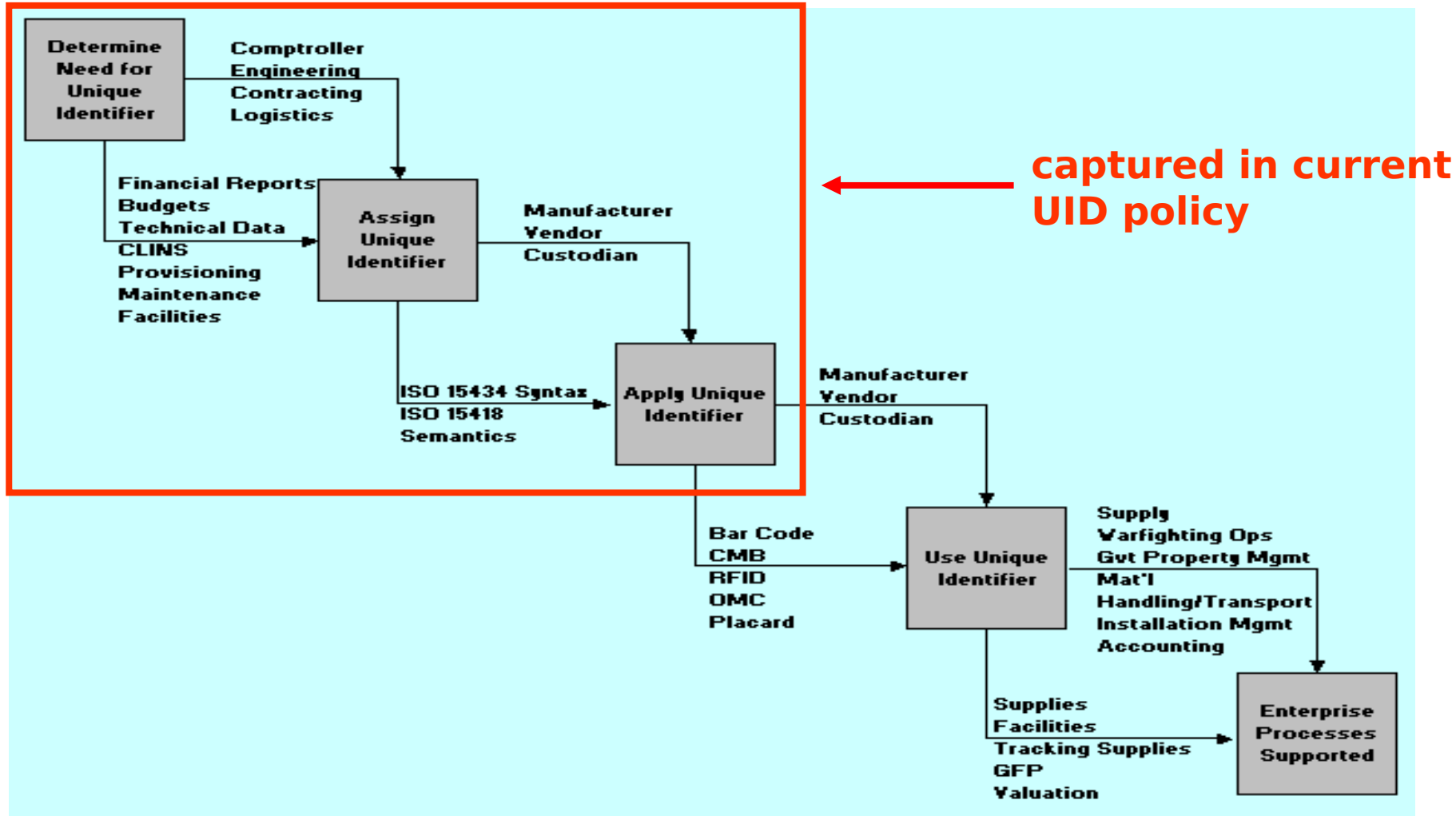


UID Interface Flow





UID Interface Flow





Requirement for UID



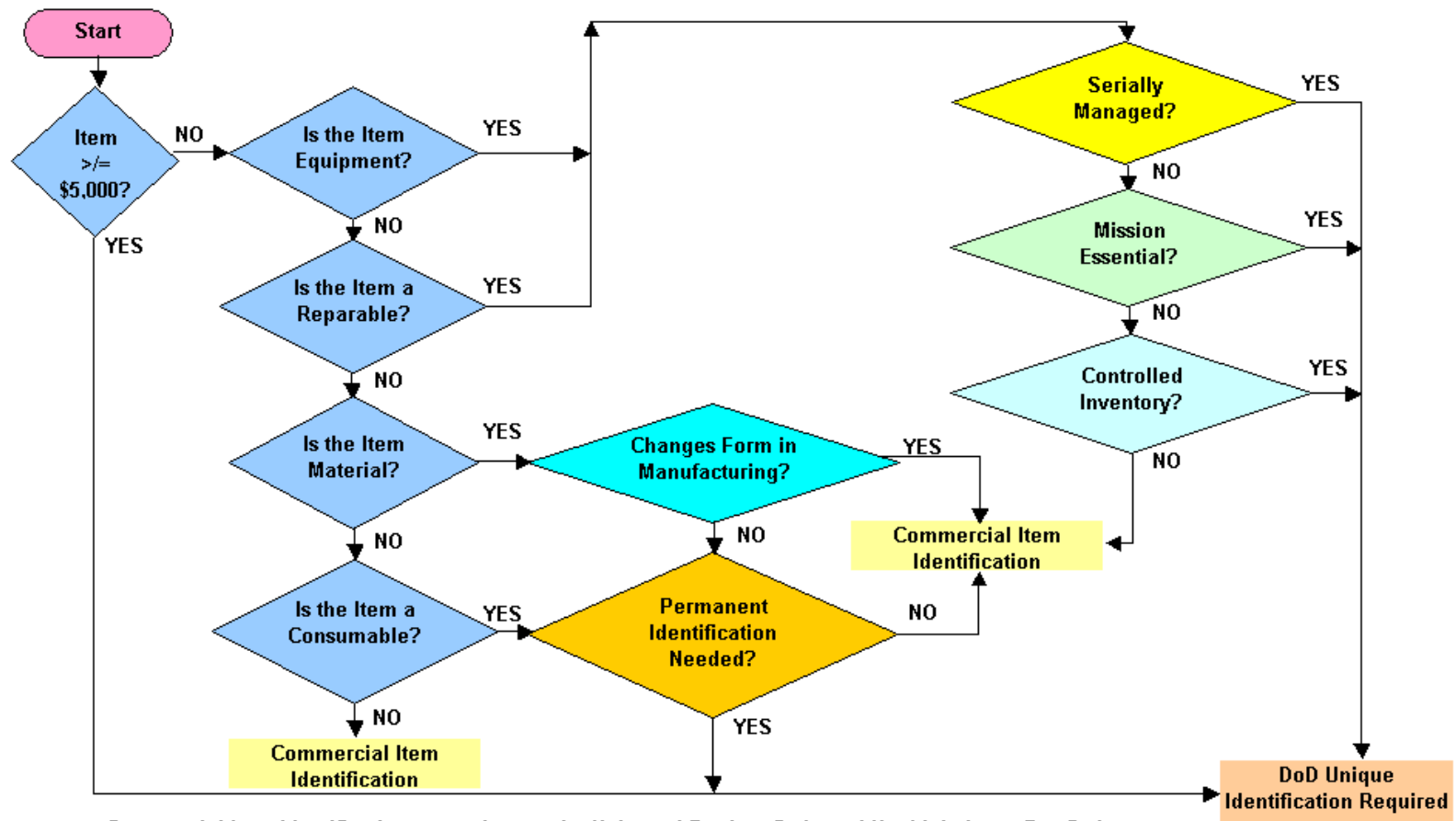
- ◆ All program managers for new equipment, major modifications, and reprocurments of equipment and spares shall plan to apply Unique Identification (UID) on tangible items
- ◆ UID is a mandatory DoD requirement for all solicitations issued on or after January 1, 2004
- ◆ Specific guidance related to UID requirements can be found by referring to the following sources:
 - DFARS interim rules issued 10 Oct 03 & 22 Dec 03
 - DoD Guide to UID Version 1.4
 - Coordinated Policy Guidance
 - www.acq.osd.mil/uid

Posted
20 Apr 04



What Requires UID?

Which Items Require a Unique Identifier



Commercial item identification examples are the Universal Product Code and Health Industry Bar Code



Unique IDentification (UID) is....



UID is . . .

. . . the set of data for tangible assets that is globally unique and unambiguous, ensures data integrity and data quality throughout life, and supports multi-faceted

EID 370521



Original Part Number 1234



Serial Number 786950



EID - Enterprise Identifier

**UID NR =
D3705211234786950**



Create and Generate the UID

BUSINESS RULES

- The UID shall be derived from its discrete component data elements. The UID is not required to be marked on the item as a separate data element.*

UID Construct

#1¹

EID (MFR)0CVA5



Serial No.
(SER)786950

UID Construct #1

D1 0CVA5786950

IAC CAGE Serial
No.

UID Construct

EID

(12V)194532636



Orig. Part No. (1P)1234

Serial No.

(S)786950

UID Construct #2

UN194532636123478

IAC DUNS Orig. Serial
6950 Part No. No.

¹ This example uses Text Element Identifiers

² This example uses MH10.8.2 Data Identifiers.

*If the enterprise chooses to mark the UID as a discrete data element on the item, the component data elements must also be marked on the item as discrete data elements, in addition to the UID.



UID Registry - Inquiry screen



UID Search Government View - Inquiry Results - Microsoft Internet Explorer provided by Northrop Grumman Corporation

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Address <http://131.87.2.234/uid/Scripts/ResultGovt.asp?UID=25583501-1049-511037C> Go Links



Unique Identification Registry

Proof of concept demo

UID Search Government View Inquiry Results

UID: 25583501-1049-511037C

UID TYPE: Unique Identification Construct 1, Serialization within the Enterprise

Issuing Agency Code: 007250079

Original Part Number: 501-1049-51

Serial Number: 1037C

Description: INDICATOR, ATTITUDE

Unit of Measure: EA

Acquisition Cost: 550

Contract Number: D365-03-0001

CLIN: 0126

Acceptance Date: 2004-02-09

Ship-to Code: UIC 09527

Commercial Sites

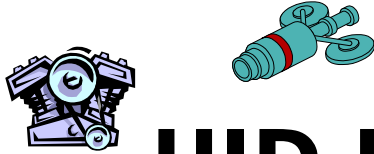
- [BarCodeNexus](#)
- [ISBN](#)
- [UCCNet](#)

Government Sites

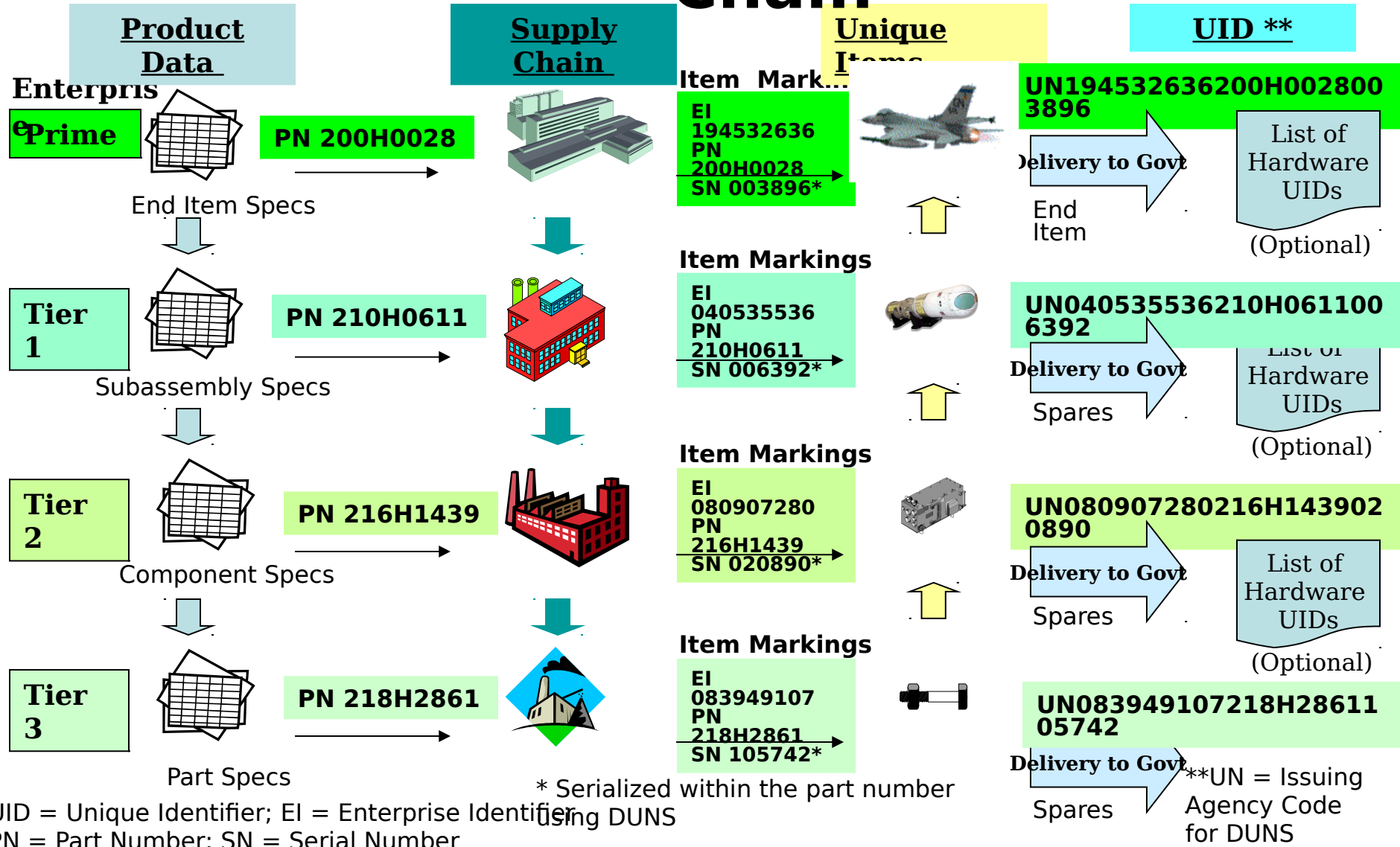
- [UDCI](#)
- [webFLIS](#)

2608 Items, 595 Unread

Internet



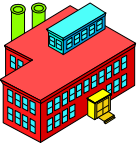
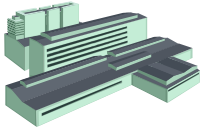
UID Reporting in the Supply Chain





UID Valuation in the Supply Chain

Supply Chain

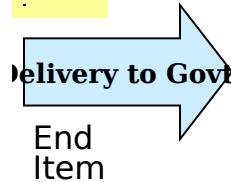


Items Qualifying for

UID

Item Marking

EI
194532636
PN
200H0028
SN 003896*

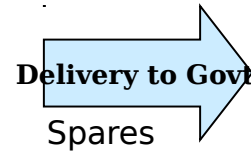


UID ** Deliverables

UN194532636200H002800
3896
CLIN Valuation for
end item

Item Markings

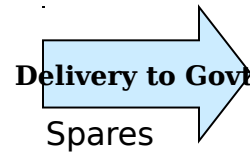
EI
040535536
PN
210H0611
SN 006392*



UN040535536210H061100
6392
CLIN Valuation - if
delivered as separate
end item

Item Markings

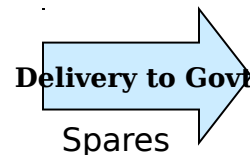
EI
080907280
PN
216H1439
SN 020890*



UN080907280216H143902
0890
CLIN Valuation - if
delivered as separate
end item

Item Markings

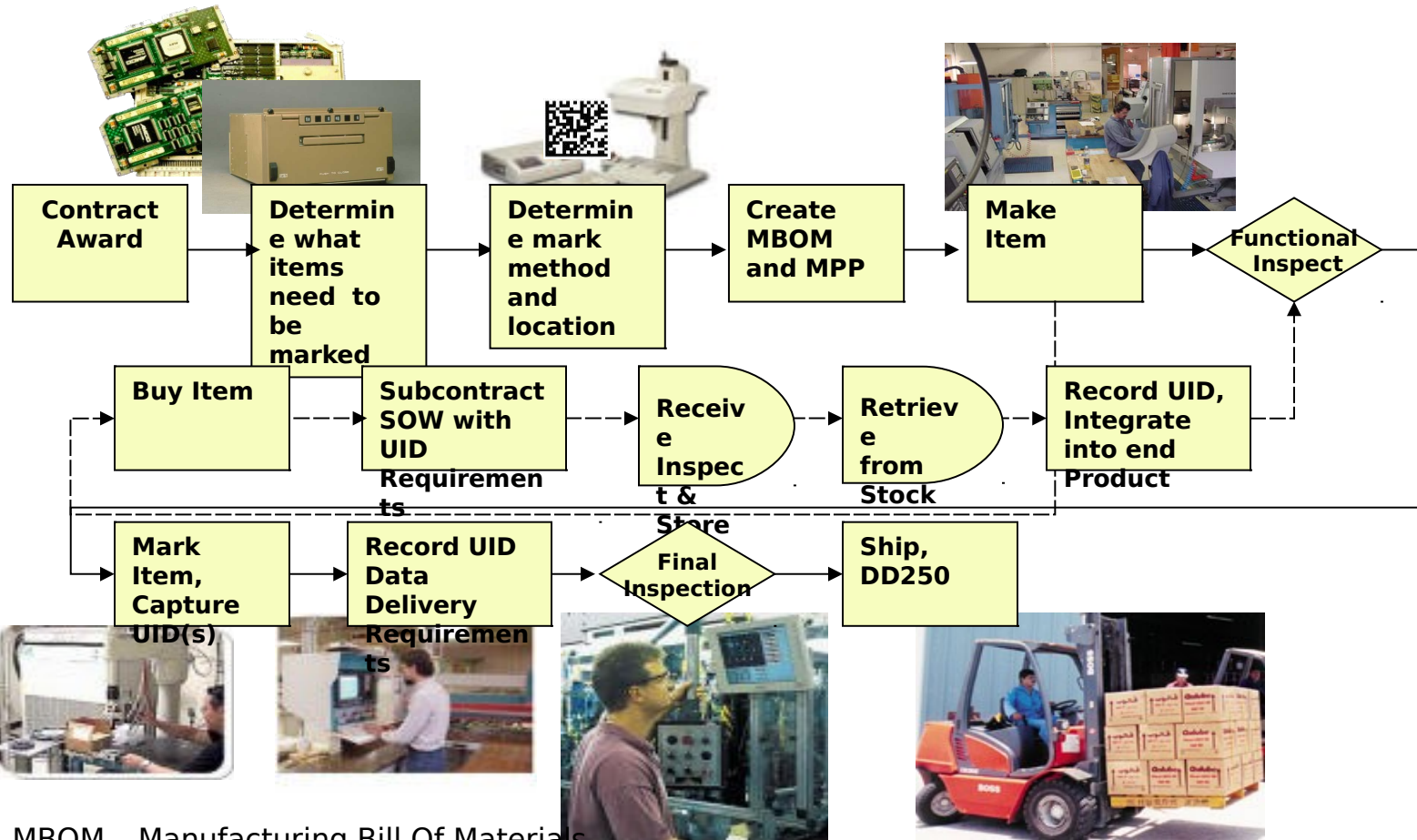
EI
083949107
PN
218H2861
SN 105742*



UN083949107218H28611
105742
CLIN Valuation - if
delivered as separate
end item

UID = Unique Identifier; EI = Enterprise Identifier Serialized within the part number using DUNS
PN = Part Number; SN = Serial Number

**UN = Issuing Agency Code for DUNS



MBOM – Manufacturing Bill Of Materials
MPP – Manufacturing Process Planning



UID Effects on Acquisition



- ◆ New subject for all acquisition personnel – UID is not “a contracting initiative”
- ◆ New solicitation provision and contract clause (DFARS 252.211-7003, 1 Jan 04)
- ◆ Delayed impact on existing GFP until 1 Jan 05
- ◆ Potential CLIN/SubCLIN Issue (DFARS 204.7104)
- ◆ New data collection and payment system (Wide Area Work Flow, mandatory on 1 Jan 05)



Current UID Activity



- ◆ Two interim rules published so far
 - Final rule expected in Jun 04
 - Further interim guidance possible before final rule is issued
- ◆ OSD guidance continues to emerge
 - OSD Paper on UID Contracting Information - outdated; under review for possible recall
 - Version 1.4 of DoD Guide to UID published on 20 Apr 04
- ◆ Expect further policy guidance to emerge as DoD working groups continue to work issues
 - OSD working with ATA and ISO towards collaborative solution
 - OSD program office has shown honest interest in what we think
- ◆ Implementation plan for depot manufactured items



Some UID Issues



- ◆ Overall, cost of UID is still an unknown
 - Cost of changing drawings, tech orders, work specifications
 - Costs to develop data system interfaces for end item tracking
 - Material support costs associated with shipping, storage, disposal
- ◆ Judgment criteria to add UID to existing contract(s)
- ◆ Marking component parts within an end item
- ◆ Possible “Requirements Creep” into FAR Part 12 buys
- ◆ Implementation on repair contracts still unclear
- ◆ UID implementation plan requirement
 - OSD (Mr. Wynne) looking for plan during program reviews
 - OSD was supposed to provide template in mid-March



AF Depot-Manufactured Items



- ◆ Initial tasking was to assess UID impact on depot-manufactured items
 - Estimated 2023 parts manufactured in FY03 that > \$5K threshold
 - 776 unique part numbers
 - Cost of UID not yet programmed into depot rates
- ◆ Services tasked to develop implementation plans for depot-manufactured items
- ◆ Draft plan developed and sent to depots for comment on 2 Apr; revised draft out for comment on 21 Apr
- ◆ Final plan expected to be released in May 04



UID Outcomes “Down the Road”

- ◆ Comprehensive, timely data about each uniquely identified item throughout the supply chain
 - Generation, collection and analysis of maintenance data
 - End-to-end tracking and traceability of unique items
 - Reliability and maintainability information on each item throughout its life cycle
- ◆ Improved supply chain efficiency
 - Administrative cost reduction
 - Reduced stock levels
 - Simplicity, standardization, speed and certainty in automated data capture and electronic information exchange
- ◆ Integrated transportation and movement of individually identified items
- ◆ Leveraged commercial technologies and practices



AFMC UID Points of Contact

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Questions?



Backups



Key DoD & External UID Stakeholders

DoD Stakeholders

- Office Secretary of Defense
- All Services
- Joint Staff
- Defense Contract Management Agency
- Defense Logistics Information Service
- UK MoD

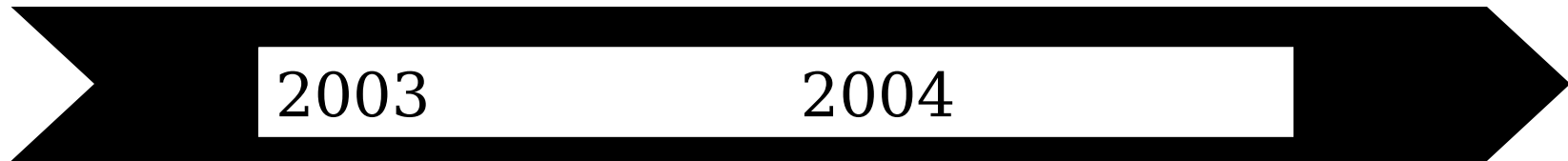
UID background materials and actions items are available
www.acq.osd.mil/uid

Industry Stakeholders

- Aerospace Industries Association (AIA)
- Government Electronics Association (GEIA)
- Uniform Code Council (UCC)
- Air Transport Association (ATA)
- Various AIT suppliers
- New York City Transit Authority
- UK Council for Electronic Business



Wide Area Work Flow (WAWF) Expected Timeline



OCT	NOV	DEC	JAN	FEB	MAR	APR
Requirements Defined	Design Solution Engage Vendors	Development	Development	Unit Test	Integration	Dry Run
				Point-to-Point Test	End-to-End Test	IOC
	WAWF DEBX	WAWF DEBX Repository	WAWF DEBX Repository	WAWF DEBX Repository		



UID Collaborative Solution Issue

- Using the **syntax** of ISO/IEC 15434, the collaborative solution provides for three interoperable formats:

Formats:

(2-digit numeric format code requested of SC 31 to replace DD)

Text Element Identifiers:

[>^R_S**DD**^G_S**MFR** 0CVA5^G_S**SER** 674A36458^R_S**EO**^E_T

EAN.UCC: Application Identifiers

[>^R_S**05**^G_S**8004**06141411A0B9C3D6^R_S**EO**^E_T

MH 10.8.2: Data Identifiers

[>^R_S**06**^G_S**17V**0CVA5^G_S**1P**1234^G_S**S**786950^R_S**EO**^E_T



EID	(17V)0CV
Original Part Number	A5 (1P)1234
Serial Number	(S)786950

- Until SC 31 assigns a format code for use of TEIs use interim DoD format code “DD” in ISO/IEC 15434 syntax



UID Policy Implementation Timeline

Policy

- ◆ UID policy issued (implementation effective Jan 2004) - 29 Jul 03
- ◆ UID policy revision #1 - 26 Nov 03
- ◆ UID policy revision #2 - 22 Dec 03
- ◆ (Anticipated) UID policy revision #3 - Apr/May 04
- ◆ UID policy on in-service parts - Sep 04
- ◆ UID implementation for existing GFP - 1 Jan 05

DFAR Cases

- ◆ DFARS Rule published in Federal Register - 10 Oct 03
- ◆ Comments due on DFARS Rule - 10 Nov 03
- ◆ Revised DFARS Rule published in Federal Register - 30 Dec 03
- ◆ Comments due on revised DFARS Rule - 1 Mar 04
- ◆ Final Rule - Jun 04

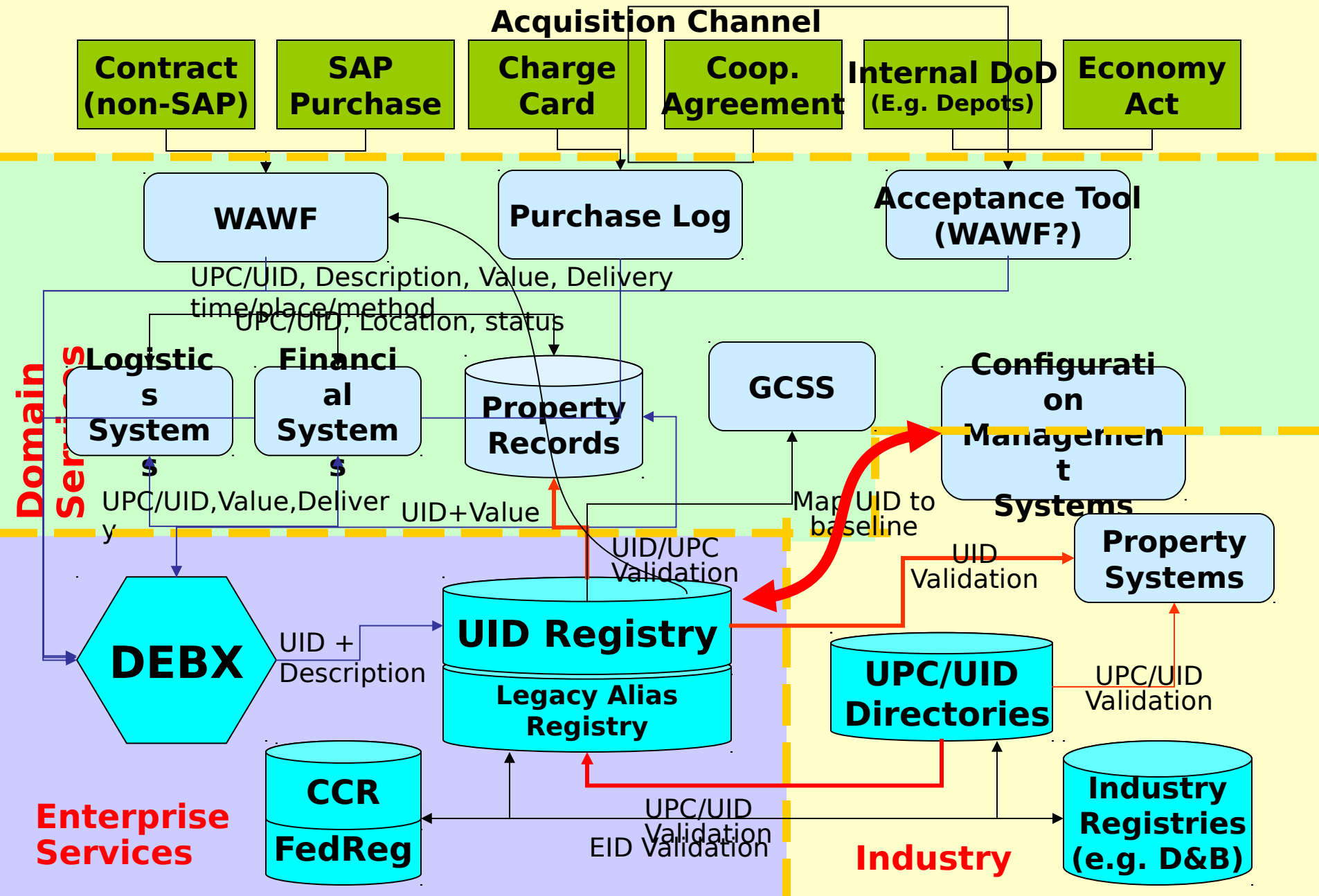
ISO 15434 Change Request

- ◆ Finalize "New Work Item Proposal" - Nov 03
- ◆ Gather change request support - ongoing
- ◆ ISO 15434 amendment decision - Jun 05

WAWF Modifications

- ◆ UID Capability IOC - Apr 04

UID Data Capture and Reuse





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Issuing Agency Code: 007250079
Original Part Number: 501-1049-51
Serial Number: 1037C
Description: INDICATOR, ATTITUDE
Unit of Measure: EA
Acquisition Cost: 550
Contract Number: D365-03-0001
CLIN: 0126
Acceptance Date: 2004-02-09
Ship-to Code: UIC 09527
Commercial Sites
[BarCodeNexus](#)
[ISBN](#)
[UCCNet](#)
Government Sites
[UDCI](#)
[webFLIS](#)

Some things Have changed!

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